



MMS Mission: Restoring Order On Earth - Project Overview

Project Duration	14 hours 40 minutes +
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Premise	<ul style="list-style-type: none"> ✓ There are problems occurring on Earth as a result of a solar storm and a superhero, Solar Storm Surfer, needs students to help him restore order on Earth by explaining the problem to the public.
Project Objectives	<ul style="list-style-type: none"> ✓ Describe the process of a solar storm and how they impact on earth. ✓ Describe the purpose of the NASA MMS mission. ✓ Present complex information to the public in a way that they will understand.
iste nets.s	<ul style="list-style-type: none"> ✓ 1, 2, 3, 4, 5, 6
Essential Questions	<ul style="list-style-type: none"> ✓ What is causing the problems on earth and in space? ✓ What is NASA doing to monitor what is going on in space to help restore order on earth? ✓ How can we communicate information to the public to restore order on earth?
Final Work Product	<ul style="list-style-type: none"> ✓ A class newscast containing team newscasts uploaded to the interactive map for final work products. <ul style="list-style-type: none"> • Note: If picking and choosing activities rather than completing the entire project, student work products may include solar storm research on class and team wikis, a team model/animation/science lab labcast, a team newscast, or a class dramatic performance video. On the final activity you complete, please post final student work products (wiki, labcast, newscast, or class dramatic performance) to the interactive map for final work products.
Cross-Curricular Links	<ul style="list-style-type: none"> ✓ Information Computer Technology (ICT) ✓ Science ✓ Engineering ✓ English ✓ Drama ✓ Dance ✓ Music ✓ Design Technology





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Activities

Note: Some of these activities can be used independently, without completing any of the other activities (see Activity Pre-Requisites)

Activity Number	Title	Activity Pre-requisites	istets.s	Duration	Summary	Suggested Cross-Curricular Links
1	Solar Storm Surfer Introduces the Problem	None	2d 3b 3d 4a 5a 5b 6a	1 hour	The class watches the video/listens to the audio of Solar Storm Surfer asking for help. The students are then formed into teams to find out more about the problem by reading the video/audio/picture messages on the interactive map. They record their findings on a class wiki and tweet their findings to Solar Storm Surfer, and at the end of the activity share their learning with the class.	<ul style="list-style-type: none"> ✓ ICT (online research, using a wiki, and tweeting) ✓ English (taking notes on research topics)
2	Teams Become Experts Through Research	Activity 1	2d 3b 3d 4a 5a 5b 6a	1 hour	Teams are allocated a specific area to research. They use links provided by Solar Storm Surfer to research, and continue to record their findings on a class wiki and tweet what they find to Solar Surfer. They share what they find out with the class.	<ul style="list-style-type: none"> ✓ ICT (online research, using a wiki and tweeting) ✓ English (taking notes on research topics)
3	A Visual Representation	None	1a 1c 2b 2d 3a 3b 3d	3 hours 10 min +	Teams plan and create a visual representation (labcast) of their specific area of the process through model building, lab work, animation formation and using analogies to help public understanding of their research areas. Teams upload their labcast to their team and class wiki and tweet labcasts to Solar Storm Surfer.	<ul style="list-style-type: none"> ✓ Science (running labs) ✓ ICT (online research, creating an animation, using a wiki, and tweeting) ✓ Engineering (Building models)





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			4a 5a 5b 6a		Note: If Twitter isn't available at your school, this component isn't essential.	<ul style="list-style-type: none"> ✓ Art (Building models) ✓ Design Technology (Building models)
4	Preparing Newscasts	Activities: 1, 2	1a 2b 2d 3b 3d 4b	1 hour 55min	Teams pull all of their learning over the course of the project together. They plan the order of their team news broadcast, write a script for their news broadcast, and practice it.	<ul style="list-style-type: none"> ✓ Drama (performing a newscast) ✓ English (writing scripts)
5	Recording Newscasts	Activities: 1, 2, 4	1a 2b 2d 3b 3d 4b 5a 5b 6a 6b 6d	1 hour 55min	Teams practice and perfect newscasts, record them and upload them to a video sharing site and to the class wiki.	<ul style="list-style-type: none"> ✓ Drama (performing newscasts) ✓ ICT (using video recording, editing, and sharing tools, using a wiki and tweeting tools)





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6	The MMS Mission	None	1a 2b 2d 3b 4d 5a 5b	4 hours 40min	<p>Solar Storm Surfer presents students with their final challenge and student teams bring the key messages from the MMS Mission to life in a class dramatic performance. The performance is recorded at the end of the activity.</p> <p>Note: If Activity 4 is completed in isolation as part a cross-curricula science-drama event, then tweeting and integrating the play into a final broadcast is not necessary.</p>	<ul style="list-style-type: none"> ✓ Drama (writing, performing and directing a play) ✓ English (writing and editing play scripts) ✓ Music (writing songs/music and providing sound effects) ✓ Dance (choreographing and performing dance routines) ✓ Art (set, costume and prop design) ✓ Technology (working with stage lighting and sound)
7	Broadcasting Class Newscast	Activities: 1, 2, 5, 6	2c 5a 5b 6a 6b 6d	1 hour	Class puts together team newscasts into a class newscast and then shares it with the world. Students summarize learning.	<ul style="list-style-type: none"> ✓ ICT (using online tools to collect and share information)

